Fujitsu recommends Windows® 7.

Data Sheet
Fujitsu ESPRIMO PH300 E85+ Desktop PC

Your Immediately Available Multimedia PC

The Fujitsu ESPRIMO PH300 E85+ is equipped with the latest Intel® technology including Hyper-Threading and Turbo Boost functionality. This solid performer provides a timeless design fitting perfectly into your home environment. The Fujitsu ESPRIMO PH300 E85+ is available from your dealer at all times and is thus an ideal choice for quick purchase decisions.

Intelligent performance
The ideal PC for the day-to-day challenges of office life
- 2nd generation Intel® Core™ processors with Turbo Boost 2.0 and Hyper-Threading technology

Designed and engineered in Germany
Outstanding quality and stable functions based on German production standards
- The development, production and function tests are all under one roof in Germany

Multimedia experience
Enjoy high-definition multimedia and entertainment
- Optional with powerful NVIDIA® GeForce® GT 420 with 1 GB or 2 GB VRAM for graphically rich content, quick transfer of photos with the integrated multi card reader

Components

Processor	Intel® Core™ i7-3770 processor (4 Cores / 8 Threads, up to 3.90 GHz 3.40 GHz, 8 MB, Intel® HD Graphics 4000 with 3rd generation Core i processors) *
	Intel® Core™ i7-2600 processor (4 Cores / 8 Threads, 3.40 GHz, 8 MB, Intel® HD Graphics 2000)
	Intel® Core™ i5-3470 processor (4 Cores / 4 Threads, up to 3.60 GHz 3.20 GHz, 6 MB, Intel® HD Graphics 2500) *
	Intel® Core™ i5-2400 processor (4 Cores / 4 Threads, 3.10 GHz, 6 MB, Intel® HD Graphics 2000)
	Intel® Core™ i5-2320 processor (4 Cores / 4 Threads, 3.00 GHz, 6 MB, Intel® HD Graphics 2000)
	Intel® Core™ i3-2120 processor (2 Cores / 4 Threads, 3.30 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Pentium® processor G860 (2 Cores / 2 Threads, 3.00 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G850 (2 Cores / 2 Threads, 2.90 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G640 (2 Cores / 2 Threads, 2.80 GHz, 3 MB, Intel® HD Graphics)
	Intel® Pentium® processor G630 (2 Cores / 2 Threads, 2.70 GHz, 3 MB, Intel® HD Graphics)
	Intel® Celeron® processor G540 (2 Cores / 2 Threads, 2.50 GHz, 2 MB, Intel® HD Graphics)
	Intel® Celeron® processor G530 (2 Cores / 2 Threads, 2.40 GHz, 2 MB, Intel® HD Graphics)
	*with Intel® Turbo Boost Technology (clock speed and will vary depending on workload and other variables)
Operating systems	
Operating system	Windows® 7 Home Premium 64-bit
Operating system compatible	openSUSE Linux
Operating system notes	Limited Windows® XP support. Microsoft discontinued Windows® XP certification on system level, basic drivers via http://support.ts.fujitsu.com
Memory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
Hard disk drives (internal)	HDD SATA III, 7200 rpm, 2000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 1000 GB, 3.5-inch
	HDD SATA III, 7200 rpm, 500 GB, 3.5-inch
	HDD SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.
	HDD SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
Hard disk notes	Up to 18 GB of HDD space is reserved for system recovery
Graphics add on cards (optional)	NVIDIA® GeForce® GT630 DisplayPort 2GB FH, 2 GB
	NVIDIA® GeForce® GT 420
	NVIDIA® GeForce® 605 DisplayPort 1GB FH, 1 GB
	ATI Radeon® HD 5450, 512 MB
Drives (optional)	DVD Super Multi
	MCR 24in1 & USB 3.0 front con., 3.5"
	MultiCard Reader 20in1, USB 2.0, 3.5-Inch
	MultiCard Reader 20in1 USB 3.0 front con., 3.5-Inch
Interface add on cards/components (optional)	
	WLAN III, 802.11g/Draft-n (Windows only)
	USB 3.0 PCIe x1
Base unit	ESPRIMO PH300 E85+
Mainboard	
Mainboard type	D2990
Formfactor	µATX
Chipset	Intel® H61
Processor socket	LGA 1155
Processor quantity maximum	1

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Mainboard	
Memory slots	2 DIMM (DDR3)
Supported capacity RAM (max.)	8 GB
Memory frequency	1333 MHz
Memory notes	Dual channel support. For dual channel performance, identical memory modules in each channel are necessary (minimum 2 modules).
LAN	10/100/1000 MBit/s Realtek RTL 8111E
BIOS version	AMI Aptio 4.6
BIOS features	BIOS Flash EPROM update by software Recovery BIOS Unified Extensible Firmware Interface (UEFI)
Audio codec	Realtek ALC663
Audio features	5.1 surround sound
I/O controller on board	
Serial ATA total	4
Controller functions	Serial ATA II (3 Gbit) NCQ AHCI
Interfaces	
Audio: line-in	1
Audio: line-in / microphone	1
Audio: line-out	1
Front audio: microphone	1
Front audio: headphone	1
USB 2.0 total	8
USB front	2
USB rear	4
USB internal	2
VGA	1
DVI	1 (DVI-D)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Input device / components	
	Optical USB wheel mouse Keyboard
Drive bays	
Drive bays total	5
3.5-inch internal bays	2
3.5-inch external bays	1
5.25-inch external bays	2
Slots	
PCI-Express 2.0 x16	1 x (210 mm / 8.27 inch) Full height
PCI-Express x1	2 x (190 mm / 7.48 inch) Full height
Graphics on board	
Graphics brand name	Intel® HD Graphics or HD Graphics 2000 (depending on CPU)
Shared video memory	up to 1759 MB

Graphics on board	
TFT resolution (VGA)	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
Graphics features	Dual display support DirectX 10.1 HDCP support OpenGL® 2.1
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz
Electrical values	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 83% / 86% / 85%
	0-Watt mode with hard-off switch
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	330 W
Power factor correction/active power	active
Monitor outlet	No
Power consumption	
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise for standard configuration (HDD, ODD)	
Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™ i5 2400
Noise Operation mode 1: ODD load (Blue angel requirement)	5.0 B/ 36 dB(A)
Noise Operation mode 2: HDD load (Blue angel requirement)	3.7 B/ 23 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	3.9 B/ 27 dB(A)
Noise Operation mode 4: High load	4.2 B/ 27 dB(A)
Noise Operation mode 5: Office applications 2.0	3.7 B/ 22 dB(A)
Idle mode (Blue Angel requirement)	3.7 B/ 22 dB(A)
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position

Dimensions / Weight / Environmental	
Dimensions (W x D x H)	175 x 425 x 353 mm
	6.89 x 16.74 x 13.9 inch
Operating position	Vertical
Weight	9 kg
Weight (lbs)	20.22 lbs
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35°C (50 - 95°F)
Compliance	
Product	ESPRIMO PH300
Model	MI4W-2990
Europe	CE
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronic equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL)
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/
Additional Software	
Additional software (preinstalled)	Nero Essentials S (burning software) Fujitsu Recovery (Hard Disk Based Recovery) Norton Internet Security (incl. Firewall) 60 days version Microsoft® Office Starter: reduced-functionality Word and Excel® only, with advertising. No PowerPoint® or Outlook®. Buy Office 2010 to use the full-featured software.
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD)
Miscellaneous	
Compatibility (references)	
	DMI 2.0 PC 2001 WMI 1.5 USB 2.0 SMBIOS
Manageability	
Manageability technology	DeskUpdate Driver management PXE 2.1 Boot code Wake up from S5 (off mode) WoL (Wake on LAN)
Security	
System protection	Kensington Lock support Eye for padlock
Audit proof protection	Boot sector virus protection Control of external interfaces
Access protection	User and supervisor BIOS password Optional: Access protection via external SmartCard reader
Packaging information	
Packaging dimension (mm)	540 x 290 x 500 mm
Packaging dimension (inch)	21.26 x 11.42 x 19.69 inch
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (lbs) Carton	2.8 lbs
Material - Weight (g) EPS / PS	160 g
Material - Weight (lbs) EPS / PS	0.35 lbs
Material - Weight (g) PE	60 g
Material - Weight (lbs) PE	0.13 lbs

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Packaging information	
Packaging notes	printed user documentation is bleached in chlorine free process

Warranty	
Standard Warranty	1 year / 2 years (depending on country)
Service level	Collect & Return Service / Bring-in Service (depending on country specific requirements)

Maintenance and Support Services - the perfect extension

Recommended Service	3 years, Collect & Return Service
Service Weblink	http://www.fujitsu.com/fts/services/support/index.html

More information

Fujitsu platform solutions

In addition to Fujitsu ESPRIMO PH300 E85+, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu ESPRIMO PH300 E85+, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
www.fujitsu.com/fts/ESPRIMO

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at http://www.fujitsu.com/global/about/environment/

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2012-05-31 CE-EN

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